



## Mars Polar Lander Fact Sheet

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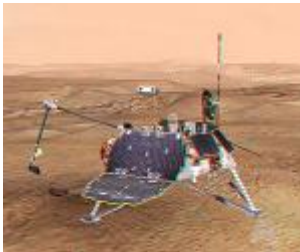


- **Mission**

- ["Volatiles and Climate History"](#)

- **Launch**

- The lander was launched from Cape Canaveral Air Force Station (CCAFS) Space Launch Complex 17 (SLC-17) on [January 3, 1999](#)



- **Launch Vehicle**

- [Boeing Delta II 7425](#). The upper stage consists of a spin stabilized Star 48 with a Nutation Control System and a yo-yo despin device.

- **Spacecraft Dimensions**

- 1.06 meters (3.5 feet) tall by 3.6 meters (12 feet) wide.



- **Spacecraft Weight**

- Total: 576 kg (1,270 pounds)  
Lander: 290 kg (639 pounds)  
Propellant: 64 kg (141 pounds)  
Cruise Stage: 82 kg (181 pounds)  
Aeroshell & Heat Shield: 140 kg (309 pounds)

- **Science Instruments**

- [Deep Space 2 Microprobes](#)
  - [Mars Volatiles and Climate Surveyor \(MVACS\)](#), consisting of surface imager, robotic arm, meteorology package, and thermal and evolved gas analyzer.
  - [Mars Descent Imager \(MARDI\)](#).
  - [Light Detection and Ranging \(LIDAR\) and Mars Microphone](#)

- **Spacecraft Power**

- Solar panels providing 200 watts on the Mars' surface.

- **Mission Timeline**

- January 3, 1999: Launch
  - December 3, 1999: Mars Landing
  - March 1, 2000: End Of Primary Mission

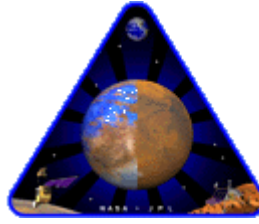
- **Project Cost**

- \$110 million for spacecraft development, \$10 million mission operations; total \$120 million (not including launch vehicle or Deep Space 2 microprobes).

- **Miscellaneous**

[A CDROM with over 932,000 names](#) is carried on the lander.

- **Mission Logo**



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